

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method comprising:
 ~~storing a table of orthogonal pseudo noise codes;~~
 partitioning ~~the~~ a table of ~~orthogonal pseudo noise~~ spreading codes into at least two codebooks each having at least two ~~pseudo noise~~ spreading codes;
 assigning a first codebook of the at least two codebooks to a first user; and
 spreading a first information signal for the first user with a first ~~pseudo noise~~ spreading code contained within the first codebook.
2. (currently amended) The method of claim 1 wherein the location of the first ~~pseudo noise~~ spreading code within the first codebook corresponds to the value of the first information signal for the first user.
3. (currently amended) The method of claim 1 further comprising:
 spreading a second information signal for the first user with a second ~~pseudo noise~~ spreading code contained within the first codebook.
4. (currently amended) The method of claim 3 wherein the location of the second ~~pseudo noise~~ spreading code within the first codebook corresponds to the value of the second information signal for the first user.
5. (currently amended) The method of claim 1 further comprising;
 assigning a second codebook of the at least two codebooks to a second user;
 and
 spreading a first information signal for the second user with a first ~~pseudo noise~~ spreading code contained within the second codebook.

6. (currently amended) The method of claim 5 further comprising:
spreading a second information signal for the second user with a second ~~pseudo~~
~~noise~~ spreading code contained within the second codebook.
7. (currently amended) The method of claim 6 wherein the location of the second
~~pseudo-noise~~ spreading code within the second codebook corresponds to the value of
the second information signal for the second user.
8. (currently amended) The method of claim 1 further comprising:
despreading the first information signal for the first user with the first ~~pseudo~~
~~noise~~ spreading code within the first codebook.
9. (currently amended) The method of claim 8 wherein the location of the first ~~pseudo~~
~~noise~~ spreading code within the first codebook corresponds to the value of the first
information signal.
10. (currently amended) The method of claim 1 wherein the partitioning the table of the
~~orthogonal-pseudo-noise~~ spreading codes further comprises:
partitioning the table into codebooks such that there are $2n$ entries, where n is a
whole number.
11. (currently amended) The method of claim 1 wherein a single ~~pseudo-noise~~
spreading code transmits multiple bits of information signal.
12. (currently amended) A method comprising:
storing a table of orthogonal pseudo-noise codes;
partitioning the table of orthogonal pseudo-noise codes into at least one
codebook having a plurality of pseudo-noise codes;

assigning a first codebook to a first user, ~~wherein the first pseudo-noise code of the first codebook corresponds to the value of the first information signal for the first user; and~~

spreading a first information signal for the first user with a first pseudo-noise code contained within the first codebook, wherein the first pseudo-noise code of the first codebook corresponds to a value of the first information signal for the first user.

42 13. (currently amended) The method of claim 44 12, wherein the location of the first pseudo-noise code within the first codebook corresponds to the value of the first information signal for the first user.

43 14. (currently amended) The method of claim 44 12 further comprising:

spreading a second information signal for the first user with a second pseudo-noise code contained within the first codebook.

44 15. (currently amended) The method of claim 43 14 wherein the location of the second pseudo-noise code within the first codebook corresponds to the value of the second information signal for the first user.

45 16. (currently amended) The method of claim 44 12 further comprising:

assigning a second codebook to a second user;

spreading a first information signal for the second user with a first pseudo-noise code contained within the second codebook.

46 17. (currently amended) The method of claim 45 16 further comprising:

spreading a second information signal for the second user with a second pseudo-noise code contained within the second codebook.

~~17~~ 18. (currently amended) The method of claim 16 wherein the location of the second pseudo-noise code within the second codebook corresponds to the value of the second information signal for the second user.

~~18~~ 19. (currently amended) The method of claim ~~14~~ 12 further comprising:
despreading the first information signal for the first user with the first pseudo-noise code within the first codebook.

~~19~~ 20. (currently amended) The method of claim ~~18~~ 19 wherein the location of the first pseudo-noise code within the first codebook corresponds to the value of the first information signal.

~~20~~ 21. (currently amended) The method of claim ~~14~~ 12 wherein the partitioning the table of the orthogonal pseudo-noise codes further comprises:
partitioning the table into codebooks such that there are 2^n entries, where n is a whole number.

22.(new) The method of claim 1, wherein the number of spreading codes in the first codebook and in a second codebook of the at least two codebooks is different.

23. (new) The method of claim 22, wherein the first codebook has at least four spreading codes and the second codebook has at least eight spreading codes.

24.(new) The method of claim 1, wherein the spreading codes are orthogonal codes.

25.(new) The method of claim 1, wherein the spreading codes are pseudo-noise codes.

26. (new) The method of claim 1, further comprising storing the table of spreading codes.